

WHAT IS CLAIMED IS:

[0031] 1. A system for digitization of work processes in a power plant having a gas turbine, comprising:

[0032] at least one processor system having a controller, said at least one processor receiving power plant data, and said controller controlling said gas turbine;

[0033] at least one interface device communicatively coupled to said processor system for communicating the data received from the processor system to at least one of a mobile computing system and a computer system carried by a mobile user;

[0034] said controller capable of receiving instructions from the mobile user to control the gas turbine;

[0035] a local area network(LAN) in communication with said at least one interface device;

[0036] at least one antenna assembly having a transceiver system for transmitting and receiving signals from the at least one interface device; and

[0037] a network server system communicatively coupled to said at least one antenna assembly via a wireless communication network, said server computer including a database for storing application data accessible by the mobile user.

[0038] 2. The system of claim 1 wherein said at least one interface device is a wireless access point device, and said computer system carried by said user is a wearable computer.

[0039] 3. The system of claim 2 wherein said access point device is capable of communicating the data received from the processor system to the server computer via said LAN.

[0040] 4. The system of claim 1 wherein said LAN comprises:

[0041] a wireless network; and

[0042] a router.

[0043] 5. The system of claim 4 wherein said wireless network is linked to said at least antenna assembly via an internet protocol (IP) data interface.

[0044] 6. The system of claim 1 further comprises:

[0045] a private branch exchange network (PBX);

[0046] a voice over IP (VOIP) gateway coupled to said PBX; and

[0047] an ethernet interface coupled said VOIP gateway and said IP data interface.

[0048] 7. The system of claim 1 wherein said server system comprises:

[0049] at least one router; and

[0050] an ATM network communicatively coupled to said at least one router.

[0051] 8. The system of claim 7 further comprises:

[0052] a wide area network (WAN) coupled to said at least one router for communicating data from said server system to said antenna assembly via an orbiting satellite.

[0053] 9. The system of claim 2 wherein said wireless access point is capable of operating on DC power.

[0054] 10. A communication network for controlling a power plant having a gas turbine, said network comprising:

[0055] a controller coupled to said power plant to control the gas turbine; and

[0056] at least one interface communicatively coupled to said controller, said interface communicating with at least one of a mobile computing system and a wearable computer carried by a mobile user, said controller receiving instructions from one of said mobile

unit and the mobile user for controlling said gas turbine.

[0057] 11. The system of claim 10 further comprises:

[0058] a local area network(LAN) in communication with said at least one interface device;

[0059] at least one antenna assembly having a transceiver system for transmitting and receiving signals from the at least one interface device; and

[0060] at least one network server communicatively coupled to said at least one antenna assembly via a wireless communication network, said server including a database for storing application data accessible by the mobile user.

[0061] 12. The system of claim 10 wherein said LAN comprises:

[0062] a wireless network; and

[0063] a router.

[0064] 13. The system of claim 12 wherein said wireless network is linked to said at least antenna assembly via an internet protocol (IP) data interface.

[0065] 14. The system of claim 10 further comprises:

[0066] a private branch exchange network (PBX);

[0067] a voice over IP (VOIP) gateway coupled to said PBX; and

[0068] an ethernet interface coupled said VOIP gateway and said IP data interface.

[0069] 15. The system of claim 10 wherein said server comprises:

[0070] at least one router;

[0071] a packet switching network communicatively coupled to said at least one router; and

[0072] a wide area network (WAN) coupled to said at least one router for communicating data from said server computer to said antenna assembly via an orbiting satellite.

[0073] 16. In a power plant of the type having a gas turbine, a method of controlling the power plant comprising:

[0074] receiving power plant data by at least one processor system having a controller;

[0075] forwarding the received data to at least one of a mobile unit and a wearable computer carried by a mobile user via an interface device;

[0076] inspecting the received data to determine power plant operability;

[0077] receiving, by the wearable computer via a wireless network, software application data stored in a remote server;

[0078] instructing the controller to vary the power plant operation.

[0079] 17. The method of claim 16 further comprises:

[0080] forwarding plant data to a remote user via a wireless communication network.

[0081] 18. The method of claim 17 wherein the power plant operation is varied by varying the operation of the gas turbine.

[0082] 19. The method of claim 16 wherein said interface device is a wireless access point.

[0083] 20. The method of claim 17 wherein said wireless communication network includes an antenna assembly and an orbiting satellite system.

[0084] 21. The method of claim 17 wherein the application data is received by a mobile user.

[0085] 22. The method of claim 16 wherein the power plant is controlled from at least the mobile unit and the wearable computer.

[0086] 23. A system for digitization of work processes in a machinery, comprising:

[0087] at least one processor system having a controller, said at least one processor receiving machine data, and said controller controlling the machinery;

[0088] at least one interface device communicatively coupled to said processor system for communicating the data received from the processor system to at least one of a mobile computing system and a wearable computer carried by a mobile user;

[0089] said controller capable of receiving instructions from the mobile user to control the machinery;

[0090] a local area network(LAN) in communication with said at least one interface device;

[0091] at least one antenna assembly having a transceiver system for transmitting and receiving signals from the at least one interface device; and

[0092] a network server system communicatively coupled to said at least one antenna assembly via a wireless communication network, said server computer including a database for storing application data accessible by the mobile user.

[0093] 24. The system of claim 23 wherein said interface device is a wireless access point interface.

[0094] 25. The system of claim 24 wherein said access point is capable of communicating the data received from the processor system to the server computer via said LAN.

[0095] 26. A method of controlling a machine apparatus by a remote user, comprising:

[0096] receiving machine data by at least one processor system having a controller;

[0097] forwarding the received data to at least one of a mobile unit and a first wearable computer, said first wearable computer carried by a first mobile user via an interface device;

[0098] inspecting the received data to determine machine operational characteristics;

[0099] forwarding the received data to a remote server via a wireless communication network;

[00100] receiving, by said first wearable computer, application data stored in said remote server via said wireless communication network; and

[00101] instructing the controller to vary the machine operation.

[00102] 27. The method of claim 26 further comprising:



[00103] forwarding the received data from said first wearable computer carried by said first mobile user to a second wearable computer carried by a second mobile user;

[00104] receiving feedback information from said second mobile user; and

[00105] fine tuning the machine operation based on the feedback information.

[00106] 28. The method of claim 26, wherein said received data is video data.